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PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: TIMOTHY SMITH
TOWNSEND AND TOWNSEND AND CREW, LLP
TWO EMBARCADERO CTR. SUITE 800
SAN FRANCISCO CA 94111

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT
OR THE DECLARATION

(PCT Rule 44.1)

Date of Mailing
(day/month/year)

16 JAN 2001

Applicant's or agent's file reference

16930-45-2PC 004511PC

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/US00/28516

International filing date
(day/month/year)

13 OCTOBER 2000

Applicant

CANI, INC. ✓

1. ☒ The applicant is hereby notified that the international search report has been established and is transmitted herewith.

Filing of amendments and statement under Article 19: 3/16/01

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.

Where? Directly to the International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland
Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Further action(s): The applicant is reminded of the following:

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

JANET M. KERR

TERRY J. DEY

PARALEGAL SPECIALIST
TECHNOLOGY CENTER 1800

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Form PCT/ISA/220 (July 1998)*

(See notes on accompanying sheet)

Amendment 3/16/01

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 16930-45-2PC	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US00/28516	International filing date (day/month/year) 13 OCTOBER 2000	(Earliest) Priority Date (day/month/year) 15 OCTOBER 1999
Applicant CANI, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
2. ☐ Certain claims were found unsearchable (See Box I).
3. ☐ Unity of invention is lacking (See Box II).
4. With regard to the title,
☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is Figure No. _____
☐ as suggested by the applicant.
☐ because the applicant failed to suggest a figure.
☐ because this figure better characterizes the invention.

☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/28516

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : Please See Extra Sheet.

US CL : Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/173.3, 173.4, 320.1, 455, 456, 458; 514/44; 530/350, 387.1, 387.7, 388.15; 536/23.1, 23.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONEElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Extra Sheet.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y	US 5,439,829 A (ANDERSON et al) 08 August 1995, col. 2, lines 1-8 and 24-33, col. 8, line 10 to col. 15, line 63, col. 30, line 21 to col. 31, line 33, col. 53 line 49 to col. 54, line 8, col. 55, line 1 to col. 56, line 35.	1, 17-22, 25-27, 31-33 — 2-16, 23, 24, 28-30
Y	US 5,885,808 A (SPOONER et al) 23 March 1999, col. 2, line 30 to col. 5, line 52, col. 7, line 7 to col. 8, line 19, col. 10, line 44 to col. 11, line 31, col. 13, lines 24-61, Figure 1 and Tables 1 and 2.	2-13, 15, 17-22, 30
Y	US 5,965,541 A (WICKHAM et al) 12 October 1999, col. 5, lines 28-44, col. 9, line 49 to col. 12, line 60, col. 16, line 30-55.	2-5, 7-13, 15, 16, 28-30

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

Z

document member of the same patent family

Date of the actual completion of the international search

08 DECEMBER 2000

Date of mailing of the international search report

15 JAN 2001

 Name and mailing address of the ISA/US
 Commissioner of Patents and Trademarks
 Box PCT
 Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

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 PARALEGAL SPECIALIST
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/28516

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,846,782 A (WICKHAM et al) 08 December 1998, col. 5, lines 15-67, col. 8, line 46 to col. 9, line 45.	23, 24
Y	US 5,932,210 A (GREGORY et al) 03 August 1999, col. 2, line 63 to col. 3, line 65, col. 6, lines 22-55, col. 7, lines 1-65, col. 8, line 65 to col. 10, line 17, col. 11, lines 1-8, col. 12, lines 24-34	6, 14
A	KABANOV. A.V. et al. DNA Complexes with Polycations for the Delivery of Genetic Material into Cells. Bioconjugate Chem. 1995. Vol. 6. pages 7-20, see entire article.	34-39
A	VERMA. LM. et al. Gene Therapy- Promises, Problems, and Prospects. September 1997. Vol. 389. pages 239-242.	34-39

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/28516

A. CLASSIFICATION OF SUBJECT MATTER:

IPC (7):

A61K 31/70; C07H 21/02, 21/04; C07K 14/00, 16/00, 17/00; C12N 15/09, 15/63, 15/86, 15/87, 15/88

A. CLASSIFICATION OF SUBJECT MATTER:

US CL :

435/173.3, 173.4, 320.1, 455, 456, 458; 514/44; 530/350, 387.1, 387.7, 388.15; 536/23.1, 23.5

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

WEST, DERWENT, MEDLINE, EMBASE, BIOSIS, INPADOC, CAPLUS

search terms: delivery vehicle, delivery complex, chelating peptide, targeting, viral, virus, adenovirus, bacteriophage, antibody, tumor antigen, peptide dna aggregate, liposome, carcinoembryonic antigen, polynucleotide, chelator, chelating, ligand, replication competent, replication deficient, protein IX, transition metal ion, iron, zinc, copper, paramyxovirus, targeting complex, peptide vector, fiber protein.